# ENG 618

## Integrated Shotgun Boom-Pole Microphone

## Key Features:

- **Electret Condenser**
- **Collapses to 18 in. - Expands to 6 ft.**
- **Highly Directional**
- **High Sensitivity**
- **Very Lightweight**
- **Suspension Shockmount**
- **Built-In Headphone Amp**
- **Phantom or Battery Powered**
- **Low-Battery Indicator**

## General Description:

The Electro-Voice® ENG 618 is a hypercardioid-line (shotgun) back-electret condenser microphone designed for broadcast news gathering applications where selective pickup in a multisound environment is required.

The frequency response of the ENG 618 microphone can be varied by the 200 Hz rolloff switch. In the roll-off position the ENG 618 provides a full-range, well-balanced sound character for clean and accurate voice reproduction. In the flat position, low frequency sounds can be sourced for background special effects or to mic specific natural or environmental audio.

The microphone's hypercardioid-line polar characteristic provides maximum output from the desired source, while rejecting unwanted off-axis noise.

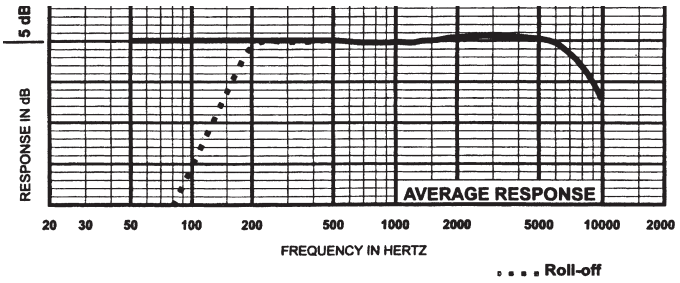
The ENG 618 boom pole is designed to extend allowing the integral microphone to be placed over several rows of people with little effort. The product's light weight and excellent balance allows consistent audio coverage without fatigue.

The ENG 618 is easily collapsed to 18 inches overall length for quick and efficient transport.

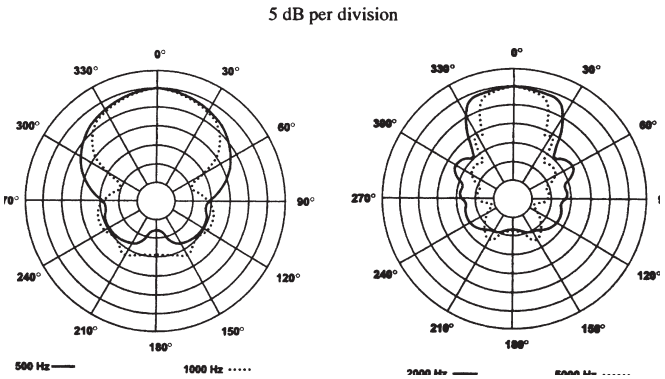
## Technical Specifications:

| | |
|---|---|
| Generating Element: | Condenser, back Electret |
| Frequency Response: | 50 Hz - 8,000 Hz |
| Polar Pattern: | Hypercardioid-line |
| Sensitivity, (Open Circuit Voltage, 1 kHz): | 17 mV/pascal |
| Clipping Level (1% THD): | 128 dB SPL |
| Equivalent Noise: | <29 dB SPL, A -weighted |
| Dynamic Range: | 99 dB |
| Output Impedance, 1 kHz: | 100 ohms |
| Power Requirements: | 12 to 52 Vdc phantom supply or 9V battery |
| Current Consumption: | 2 mA phantom, 20 mA battery, 20 hours estimated battery life. |
| Polarity: | A positive pressure on the diaphragm produces a positive voltage on output pin 2 (+). |
| Finish: | Nonreflecting black, anodized boom<br>Black closed-cell foam handgrip |
| Dimensions: | |
| Length: | 18 in. (46 cm) collapsed, 6 ft. (180 cm) extended |
| Diameter: | 3.5 in. (9 cm) circle |
| Capsule Diameter: | 0.21 in. (5.3 mm) |
| Net Weight: | 2.0 lb (1000 grams) |
| Shipping Weight: | 3.1 lb (1,400 grams) |
| Accessories Furnished: | Windscreen<br>Vinyl utility pouch with belt loop |

## Frequency Response:




## Polar Response:




### Standard Placement & Use Guidelines

1. Always point the microphone at the desired source of sound, and away from any unwanted sources.

2.The microphone should be located close to the sound source to minimize interference from other potential sound sources.

3. Use the 3-to-1 rule when using multiple microphones. Place each microphone three times farther from other microphones as from the desired sound source.

4. Minimize over-handling of the microphone to reduce unwanted mechanical noise.

5.Working close to the microphone will increase the bass tone and also provide increased gain-before-feedback.

## Powering the ENG618:

The ENG 618 is powered by an external 12 - 52 volt phantom power supply or 9-V battery. The battery is needed to operate the headphone amplifier circuit. Initial use of the battery circuit, causes the low-battery indicator to flash momentarily. The lowbattery LED remains on when the voltage drops indicating a need to replace the battery.

To operate the ENG 618, use high-quality balanced cable with XLR connectors to connect the electronics housing to the mixer input. If the mixer is supplying phantom power, this will power the ENG 618 with or without the 9-V battery. Without phantom power the ENG 618 requires a 9-V battery.

An 1/8-in. mini-plug may be used to connect an 8-ohm stereo headphone to the ENG 618. Plugging into the headphone jack automatically switches on the battery power to the volume-adjustable headphone amplifier. This allows the operator to hear the “sound field” through the headphones whether on-line via the XLR connector or not. This can be very useful when doing a background environmental sound check before the actual “on-air” use.

The headphone jack could also be used to connect to a portable tape recorder for quick minimal equipment coverage.

Each segment of the telescoping boom pole can be secured with a twist of the collet at any position along its length. By loosening, the segments can collapse quickly into each other. Folding the microphone toward the handle allows the unit to locate into the base for storage.

**ENG 618 Part Number: 16063042**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Specifications subject to change without notice.